

# Health Protection Agency, Porton Down and European Collection of Cell Cultures

This document certifies that Virus RAdEs

Deposit Reference 04121701

has been accepted as a patent deposit, in accordance with

The Budapest Treaty of 1977,

with the European Collection of Cell Cultures on

17 December 2004

Dr D H Lewis General Manager ECACC

BUDAFEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS

-	FOR THE PURPOSES OF PATENT P	ROCEDURE
TO DR S VRATT HATTCHAL INSTITUTE OF IMMUEOLOGY V.ROLOGY LABORATORY	INTERNATIONAL FORM	
NEW DELHI 110 067 INDIA NAME AND ADDRESS OF DEPOSITOR		
I. IDENTIFICATION OF THE MICE	OORGAN I SM	
Identification reference given by DEPOSITOR:	the	Accession number given by the INTERNATIONAL DEPOSITARY AUTHORITY: 04121701
TI. SCIENTIFIC DESCRIPTION AND	D/OR PROPOSED TAXONOMIC DESIGNATI	ON
The microorganism identified unde	gnation	
III. RECEIPT AND ACCEPTANCE		
This International Depository Autwhich was received by it on	thority accepts the microorganism	identified under I above, he original deposit)'
IV. RECEIPT OF REQUEST FOR CO	NVERSION	
The microorganism identified undended bepository Authority on A request to convert the original	the under the	nternational he original deposit) and Budapest Treaty eceipt of request for conversion)

was received by it on

INTERNATIONAL DEPOSITORY AUTHORITY

Hame: Dr D H Lowis

ECACC Address:

> Porton Down Salisbury SP4 OJG

Signature(s) of person(s) having the power to represent the International Depository Authority or of authorized officials(s):

Date: 27

Where Rule 6.4(d) applies, such date is the date on which the status of international depositary authority was acquired

Form BP/4 (sole page)

1991

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

#### INTERNATIONAL FORM

TR S VRATE
CATIONAL INSTITUTE OF EMMENOSOGY
VIROLOGY LABORATORY

VIABILITY STATEMENT Issued pursant to Rule 10.2 by the INTERNATIONAL DEPOSITARY AUTHORITY identified on the following page

DEW DELAT

NAME AND ADDRESS OF THE PARTY
TO WHOM THE VIABILITY OF STATEMENT
TS ISSUED

I. DEP	OSITOR	II. IDENTIFICATION OF THE MICROORGANISM		
	DR E VRATI NATIONAL INSTITUTE OF IMMUNOLOGY VIROLOGY LABORATORY	Accession number given by the INTERNATIONAL DEPOSITORY AUTHORITY: 04121701		
Address:	NEW DELHI 110 067 INDIA	Date of the deposit or of the transfer:  17 December 2004		
TT. VIA	BILITY STATEMENT			
the viabil	ity of the microorganism identified under 17 December 2004 viable	II above was tested $^{2}.$ On that date, the said microorganism was		
3	no tonger viable			

- Indicate the date of the original deposit or, where a new deposit or a transfer has been made, the most relevant date (date of the new deposit or date of the transfer).
- In the cases referred to in Rule 10.2 (a) (ii) and (iii), refer to the most recent viability test.
- 3 Mark with a cross the applicable hox.

Form BP/4 (first page)

		THE VIASILITY TEST HA	
The Virus & Depositor's	arear Deposit RAdAs protocol and shown	Accession Number 041: to be infectious and	21701 was tested according to the viable.
II. INTE	DE D H Lewis	AV AUTHORITY	Signature(s) of person(s) having the power to represent the International Depositary
Address:	FCACC HPA Porton Down		Authority or of authorized official(s):
Marie 200	Salisbury Wiltshire SP4 OJG	W	Date: 77/1/65

<sup>4</sup> fill in if the information has been requested and if the results of the test were negative.

warm BP/9 (second and last page)

### Patent Deposit Accession Form Virus

DEPOSITOR INFORMATION
Name of Depositor/Company/Institute NATIONAL INSTITUTE OF IMMUNOLOGY
(NB this will be the name that appears on certification)  Contact Name DR SUDHANSHU VRATI  Depositor Address NATIONAL INSTITUTE OF IMMUNOLOGY, NEW DELHI-110067  Tel No +91-11-26703696 Fax No +91-2-26162125. Email Vrati@nil.meb10
BIOHAZARD STATEMENT MUST BE ENCLOSED
The deposit is made in accordance with the terms of the Budapest Treaty 1977. I agree to abide by the conditions and regulations
regarding the deposit of cell lines to the ECACC.  Signature  Date  16- JUNE-2004
Address to which invoice should be sent (if different from above)  DIRECTOR
NATIONAL INSTITUTE OF IMMUNOLOGY. NEW DELH) - 110067
VIDUO INFORMATION
Name in full Recombinant human adanovious
Abbreviated Name RADES Identification on Ampoules RADES
Strain Serological Type
Normal Host
Virus Titre Deposited
VIRUS PROPAGATION
Host cells (first choice) Human embyonie krolney 293 cells
Alternative Host Cells North
Details of Host Cell Growth (media, temperature, seeding density, growth factors etc) ( worn in both mountary on )
HEK 293 cells cultured in DMEM+10/ PCS:
Details of Virus Growth (eg confluency of host cells, co-cultivation, moi, effects, time taken) At mon 0') it tokes = 3
For cost to appear - cells are their harvested & visus prepared.
VIRUS STORAGE
Material stored (eg supernatant, infected cell extract, viable infected cells etc)  Temperature and conditions
VIRUS ASSAY
Method (enclose if necessary) Plague assay on 293 cells.
LITERATURE REFERENCES (if any)
ANY OTHER RELEVANT INFORMATION
to form also also
Please Note: ECACC must receive full information regarding delivery at least 48 hours before despatch.
A Biohazard Risk Assessment must be completed in order for your samples to be accepted. ECACC is required to assess the GMO status of all deposits PRIOR to receipt. Therefore, we will contact all depositors to advise them when we can receive samples.

Tisday's Hesearch
Tomorrow's Health

European Collection of Cell Cultures, CAMR, Salisbury, Wiltshire SP4 0JG
Tel: 44 (0) 1980 612512 Fax: 44 (0) 1980 611315 E-mail: ecacc@camr.org.uk Web site: ecacc.org.uk

ECACC/2001/063 16/06/04

2.	Does the GM agent contain/produce a biologically active substance that could potentially cause harm to humans (eg toxin, cytokine, hormone, allergen, oncogene)			Yes No No				
3. What is the likelih can confer pathog		telihood that the genetic modification thogenic traits in the host organism?		Negligible	Possible		ably or onstrated	
		C	9					
	If "possible", "p	orobably" or "der	monstrated" please prov	vide additional de	etails:			
4.	What is the po	ne potential for sequences within the GM nsferred to another related microorganism?		Negligible	Low	Medium	High	
	being transfer.			V				
	If "medium" or	"high" please pr	rovide additional details:					
<ol> <li>In the light of</li> </ol>		your knowledge of this GMM and its		Negligible	Low	Medium	High	
	origination, what is your assessment of its potential to cause harm to human health in the event of exposure?		h in the event of					
	If "medium" or	"high" please p	rovide additional details	:				
6.	Does this GMI and dissemina	M have the abilit ate in the enviror	y to survive, establish nment?			Yes	No 🔽	
Form	completed by:	Name:	DR, SVDH	IAMSHU VI	RATI			
		Title:	STAFF SC	IENTIST				
		Date:	16th JUNI					
		Signature:	All details above are	correct				
			on in order to complete	its risk assessm	ent. To who	m should suct	requests	
be addressed? Name:		DR. G.W. BOTH						
Teleph	none:							
Fax:			- 94905005					
E-mail	l:	Gerry	. Both @ Csiro	au.		,		
						F04/	20/2004/042	

European Collection of Cell Cultures, CAMR, Salisbury, Wiltshire SP4 0JG
Tel: 44 (0) 1980 612512 Fax: 44 (0) 1980 611315 E-mail: ecacc@camr.org.uk Web site: ecacc.org.uk

### Biohazard Risk Assessment

To be completed prior to acceptance of a biological agent into an ECACC repository

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2.1	
4.5.44	
** *** * **************	Contract of the Contract of th

For ECACC use only  Type of Deposit:
Accession Number:
Depositor Code:
Activity Class:
Signed: Date:
For Completion by Depositor
The Biological Agent is:  Animal Cell Virus Bacterium Yeast Plasmid  Genetically Modified If yes. What Class: Category 1.
If you have answered Class 2 or above please forward to us any Risk Assessment you have
carried out yourselves relating to this deposit.
Other (please define):  Species: Replication - defective human adenovious  Strain: type 5  Identification Code: RADES
ACDP Hazard Group <sup>1</sup> 1 2 3 4 If USA deposit use SALS Category
Does this require a Specified Animal Pathogens Order YES/NO
If yes please refer to the DEFRA Web site for a licence application. www.defra.gov.uk
Brief description of deposit. If the agent is genetically modified include details of inserted
gene, method/vehicle for insertion and any expression product.
E1 transcription unit-deleted, replication-defective human Adenovirus (Ad) 5 was modified to contain in its genome, the cDNA encoding Japanese encephalitis virus (JEV) prM and E proteins under the control of the Cytomegalo virus promoter in place of the E1 transcription unit. The recombinant virus RAdEs, thus generated, is unable to replicate in mammalian cells other than HEK293 where Ad5 E1 transcription unit has been integrated permanently. RAdEs is capable of expressing JEV prM and E proteins in mammalian cells.

To be completed if the biological agent is genetically modified

<sup>1</sup> ACDP Advisory Committee on Dangerours Pathogens

Hazard Group 1

A biological agent unlikely to cause human disease.

A biological agent that can cause human disease and may be a hazard to employees, it is unlikely to spread to the Hazard Group 2 community and there is usually effective prohpylaxis and effective treatment available

A biological agent that can cause severe human disease and presents a serious hazard to employees. It may present a risk Hazard Group 3 of spreading to the community, but there may be a prophylaxix or treatment available.

A biologial agent that causes severe human disease and is a serious hazard to employees. It is likely to spread to the Hazard Group 4 community and there is usually no effective prophylaxis or treatment available.



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Virus

**RAdEs** 

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17 December 2004

Dr D H Lewis

General Manager

**ECACC**